

**USS CLAIRTON WORKS  
A DIVISION OF USX CORPORATION  
CLAIRTON, PENNSYLVANIA**

**Report on**

**LEAK DETECTION AND REPAIR  
OF EQUIPMENT IN BENZENE SERVICE  
FOR THE PERIOD  
JULY 1995 THROUGH DECEMBER 1995**

**Prepared by**

**Advanced Technology Systems, Inc.  
3000 Tech Center Drive  
Monroeville, Pennsylvania 15146-3055**

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ADVANCED TECHNOLOGY SYSTEMS, INC.

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## 1.0 INTRODUCTION

This report fulfills the requirements of the United States Code of Federal Regulations, Title 40, Part 61 (40 CFR 61), Subpart L (National Emission Standard for Benzene Emissions from Coke By-Product Recovery Plants) and Subpart V (National Emission Standard for Equipment Leaks [Fugitive Emissions Sources]). The required monitoring was conducted at the USS Clairton Works facility located in Clairton, Pennsylvania; this report summarizes the results for the period July through December 1995.

Equipment "in benzene service" is defined as that equipment which contains or contacts a fluid (liquid or gas) that is at least 10 percent benzene by weight or an exhauster that contains or contacts a fluid (liquid or gas) at least 1 percent benzene by weight. The following four streams at USS Clairton Works meet the requirements of this regulation:

- Raw gas is greater than 1 percent benzene by weight and is present in the axi compressors
- Sub gas is greater than 10 percent benzene by weight and contacts the main regenerators, sub gas vacuum machines, sub gas coolers, sub gas separators, and light oil regenerators
- Sub sub gas is greater than 10 percent benzene and contacts the light oil regenerators, sub sub gas coolers, and sub sub gas separators
- Light oil contains greater than 10 percent benzene by weight, and contacts all separators, coolers, decanters, and the light oil transfer line to Aristech Corporation for further processing. Light oil is also used to wash screens in the final coolers and to periodically wash both the main and light oil regenerators.

## 2.0 METHODOLOGIES

The exact recordkeeping requirements, leak detection monitoring requirements, and initial and subsequent semiannual reporting requirements pertaining to 40 CFR 61, Subparts J and V can be found in the Code of Federal Regulations. Specific aspects of these requirements as they apply to USS Clairton are described below.

## 2.1 Identification of Equipment in Benzene Service

The operation of the by-product processes require continual process piping maintenance and may involve physical changes in the processes. As a result, the leak detection and repair program requires a continual review of the operations to ensure that all equipment in benzene service is recognized and properly monitored. Identification includes both tabular registration of information on the individual components and a special series of process flow diagrams as an aid in specifically locating each component.

## 2.2 Monitoring of Equipment in Benzene Service

Monitoring of equipment in benzene service was performed in accordance with EPA Reference Method 21, Determination of Volatile Organic Compound Leaks. This method describes the selection and calibration of monitoring equipment as well as procedures used in the actual monitoring.

A Thermo Environmental Instruments, Inc. Model A-580S Intrinsically Safe Organic Vapor Meter was used for monitoring. The unit is equipped with a photoionization detector (PID) and an 11.8 eV source. It requires no fuel or other gases to operate. A gas standard containing approximately 10,000 ppmv hexane in nitrogen was used for instrument calibration. Other concentration standards were prepared by diluting the hexane gas standard with known volumes of air. Three-point calibrations were conducted at the beginning of each day of monitoring and a one-point verification was conducted at the end of the monitoring day.

All accessible components were monitored on a monthly, quarterly, semiannual, or annual basis as required by the applicable subpart regulations (at the request of USS Clairton Works, the alternative monitoring plans described in these subparts are not followed). It should be noted that many major components, such as axi compressors, regenerators, and final coolers, are not in service at all times due to intermittent need. Monitoring of these components is conducted only if the equipment is in service at the time of monitoring. In addition, the various light oil

wash systems are in intermittent use, and likewise are only monitored if in service at the time of monitoring.

Depending on the particular piece of equipment monitored, a leak is defined, in general, as any emission which results in a monitored reading greater than or equal to either 500 ppmv or 10,000 ppmv (whichever is applicable) as hexane, or any visible leak. Any leaking components must have the initial repair attempted within 5 days of the determination; final repairs must be completed within 15 days of the determination.

### **3.0 RESULTS**

#### **3.1 Leak Monitoring Results**

Table 1 indicates the process equipment units in operation during each period of monitoring. Table 2 summarizes the number of components monitored and the number and identity of the leaking components.

As shown in Table 2 for the period July 1995 through December 1995, 2 components in benzene service were found to be leaking. This is equivalent to 0.08 percent leakers for the semi-annual period, well within the regulatory criteria to permit the quarterly monitoring frequency as conducted.

Also shown in Table 2 is the specific identification and repair history of the leaking components. The two leakers were both repaired within the required period, and subsequent monitoring indicated successful repair.

#### **3.2 Update of Identification of Equipment Components**

The entire component identification system was revised and updated during the period, including both the registration tables presenting information for each component, and the process flow diagrams which aid in specifically locating each component.

In accordance with the regulations, included with this semi-annual report are the revised registration tables and drawings. These documents will be reviewed on a semi-annual basis, and additional changes will be made as the process flows and equipment components change.

### 3.3 Reporting Schedule

The semi-annual reports for 1996 will be submitted within 120 days after the completion of each period.

TABLE 1  
 USS CLAIRTON WORKS  
 CLAIRTON, PENNSYLVANIA  
 EQUIPMENT IN OPERATION DURING NESHAPS MONITORING PERIODS  
 JULY THROUGH DECEMBER 1995 SUMMARY

UNIT TYPE	USS ID #	NESHAPS FIG #	CONTROL ROOM #1					DATE			
			7/28/95	8/30/95	9/29/95	10/27/95	12/01/95				
AXI COMPR.	C-100	1			SPARE	SPARE	OFF, REPAIR	ON	OFF, REPAIR	ON	12/11/95
	C-105	2	OFF, REPAIR	OFF, REPAIR	ON	ON	ON	ON	ON	ON	ON
	C-110	3	ON	ON	ON	ON	ON	ON	ON	ON	ON
	C-115	4	ON	ON	ON	ON	ON	ON	ON	ON	ON
	C-120	5	ON	ON	ON	ON	ON	ON	ON	ON	OFF, REPAIR
	C-125	6	SPARE	SPARE	OFF, REPAIR	OFF, REPAIR	OFF, REPAIR	ON	ON	ON	ON
	C-130	7	SPARE	ON	SPARE	ON	ON	ON	ON	ON	ON
	C-135	8	ON	ON	SPARE	SPARE	ON	ON	ON	ON	SPARE
	C-140	9	ON	ON	ON	ON	ON	ON	ON	ON	ON
	C-145	10	SPARE	SPARE	ON	ON	ON	ON	ON	ON	ON
	C-150	11	ON	ON	ON	ON	ON	ON	OFF, REPAIR	ON	ON
	C-155	12	ON	ON	ON	ON	ON	ON	ON	ON	OFF, REPAIR
	C-160	13	ON	ON	ON	ON	ON	ON	SPARE	ON	OFF, REPAIR
	C-165	14	ON	ON	ON	ON	ON	ON	ON	ON	ON
	C-170	15	SPARE	ON	ON	ON	ON	ON	ON	ON	ON
	C-175	16	ON	ON	ON	ON	ON	ON	SPARE	ON	ON
	C-180	17	ON	ON	ON	ON	ON	ON	SPARE	ON	ON
	C-185	18	ON	ON	ON	ON	ON	ON	ON	ON	ON
SUPER STILL		21,22	ON	ON	OFF	ON	ON	ON	ON	ON	ON
FINAL COOLER	201	20	ON	ON	ON	ON	ON	ON	ON	ON	ON
	202	20	ON	ON	ON	ON	ON	ON	ON	ON	ON
	203	20	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	206	20	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

TABLE 1 (CONTINUED)

CONTROL ROOM #2

UNIT TYPE	USS ID #	NESHAPS FIG #	DATE								
			7/28/95	8/30/95	9/29/95	10/27/95	12/01/95	12/12/95			
VACUUM MACH	C-500	23	ON	ON	SPARE	OFF, REPAIR	SPARE	ON	SPARE	SPARE	
	C-503	24	ON	OFF, REPAIR							
	C-506	25	SPARE	SPARE	SPARE	ON	ON	SPARE	SPARE	SPARE	
	C-509	26	ON								
	C-512	27	ON								
	C-515	28	ON								
	C-518	29	SPARE	SPARE	ON	ON	ON	ON	ON	ON	
	C-521	30	ON								
	C-524	31	ON	OFF, REPAIR	ON	ON	ON	ON	ON	ON	
	C-527	32	OFF, REPAIR	OFF, REPAIR	OFF, REPAIR	SPARE	ON	ON	ON	ON	
	C-530	33	ON	ON	ON	OFF, REPAIR					
	C-533	34	SPARE	ON							
	C-536	35	OFF, REPAIR	SPARE	SPARE	OFF, REPAIR	OFF, REPAIR	OFF, REPAIR	SPARE	SPARE	
	C-539	36	OFF, REPAIR	ON	ON						
	C-542	37	ON	ON	ON	ON	ON	ON	SPARE	OFF, REPAIR	
	C-545	38	ON								
	C-548	39	ON	ON	OFF, REPAIR	ON	ON	ON	ON	ON	
	R-582	53	ON								
	R-584	54	ON								
	R-586	55	ON								
	R-590	56	ON								
	LO REGENER.	1	40	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
		2	41	ON	ON						
		3	42	ON	ON						
		4	43	OFF	OFF	ON	ON	ON	ON	ON	ON
		5	44	ON	ON						
		6	45	ON	ON						
		7	46	ON	ON						
	QUADS	1	40	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
		2	41	ON	ON						
		3	42	ON	ON						
		4	43	OFF	OFF	ON	ON	ON	ON	ON	ON
5		44	ON								
6		45	ON								
7		46	ON								

TABLE 2  
USS CLAIRTON WORKS  
CLAIRTON, PENNSYLVANIA

NESHAPS MONITORING OF COMPONENTS IN BENZENE SERVICE  
JULY THROUGH DECEMBER 1995 SUMMARY OF LEAKERS

MONITORING DATES	CONTROL ROOM NUMBER	NUMBER COMP MONITORED	VALVES			PUMPS			CONNECTORS			REASONS FOR REPAIR DELAY
			LEAKS DETECTED	PERCENT LEAKERS *	NOT REPAIRED	LEAKS DETECTED	PERCENT LEAKERS	NOT REPAIRED	LEAKS DETECTED	PERCENT LEAKERS	NOT REPAIRED	
7/23/95	1	12	0		0	0	0	0	0	0	0	
7/23/95	2	7	0		0	0	0	0	0	0	0	
8/30/95	1	16	0		0	0	0	0	0	0	0	
8/30/95	2	12	0		0	0	0	0	0	0	0	
9/29,10/4,6/95	1	187	0		0	0	0	0	0	0	0	
9/29,10/4,6/95	2	816	0	0	0	0	0	0	0	0	0	
10/27/95	1	11	0		0	0	0	0	0	0	0	
10/27/95	2	31	2		0	0	0	0	0	0	0	
12/1/95	1	11	0		0	0	0	0	0	0	0	
12/1/95	2	31	0		0	0	0	0	0	0	0	
12/11,12,19,29	1	325	0		0	0	0	0	0	0	0	
12/11,12,19,29	2	1021	0	0.19	0	0	0	0	0	0	0	

\* BASIC MONITORING IS QUARTERLY. PERCENT LEAKER CRITERIA IN ON A QUARTERLY BASIS, NOT INDIVIDUAL MONTHS. NUMBER SHOWN IS FOR ENTIRE CALENDAR QUARTER AND INCLUDES BOTH CONTROL ROOMS AND ALL COMPONENTS.

NESHAPS MONITORING OF COMPONENTS IN BENZENE SERVICE  
JULY THROUGH DECEMBER 1995 LEAKER IDENTIFICATION AND REPAIR

MONITORING DATES	CONTROL ROOM NUMBER	TYPE COMP	ATS ID	USS ID	NAME OF COMPONENT	ORIGINAL MONITOR DATE	ORIGINAL READING PPMV	REPAIR DATE	REPAIRED MONITOR DATE	REPAIRED READING PPMV	SECOND MONITOR DATE	SECOND READING PPMV
10/6/95	2	VALVE	E-064	R-582	LDNG GAS VALVE	10/6/95	>10,000	10/10/95	10/27/95	536	12/01/95	84
10/6/95	2	VALVE	E-103	R-586	LDNG GAS VALVE	10/6/95	>10,000	10/10/95	10/27/95	121	12/01/95	<20

# ATTACHMENT 1

## REGISTRATION OF ALL COMPONENTS IN BENZENE SERVICE AT USS CLAIRTON WORKS

### TABLES 1 THROUGH 81

#### FOR EACH TABLE

COLUMN #1	NEW COMPONENT REGISTRATION NUMBER AS OF 1/1/96
COLUMN #2&3	OLD COMPONENT REGISTRATION NUMBER THROUGH 12/31/95
COLUMN #4	CONTROL ROOM NUMBER 1 CONTROL ROOM NO. 1 2 CONTROL ROOM NO. 2
COLUMN #5	DRAWING NUMBER
COLUMN #6	UNIT THAT COMPONENT IS A PART OF
COLUMN #7	CLAIRTON UNIT IDENTIFICATION NUMBER
COLUMN #8	TYPE OF COMPONENT DP DIFFERENTIAL PRESSURE F FLANGE G PRESSURE GAUGE LC LEVEL CONTROLLER MH MANHOLE/ACCESS PORT OP ORIFICE PLATE P PUMP RG REGULATOR SG SIGHT GLASS SW SWITCH V VALVE VT VENT
COLUMN #9	NAME OF COMPONENT
COLUMN #10	GENERAL LOCATION OF COMPONENT

COLUMN #11      STREAM THAT COMPONENT IS IN CONTACT WITH  
                  RG      RAW GAS  
                  LO      LIGHT OIL  
                  SG      SUB GAS  
                  LOM    LIGHT OIL/METHANOL  
                  CSG    CARBONATE (CLEAN) SUB GAS  
                  SSG    SUB SUB GAS  
                  LOW    LIGHT OIL/WATER  
                  VG      VAPOR/GAS  
                  W      WATER

COLUMN #12      PERCENT BENZENE IN THE STREAM

COLUMN #13      GENERAL PHASE OF THE STREAM  
                  G      GAS  
                  GV     GAS/VACUUM  
                  L      LIQUID  
                  GL     GAS/LIQUID

COLUMN #14      COMPONENT ACCESSIBILITY  
                  N      NOT ACCESSIBLE  
                  Y      ACCESSIBLE

COLUMN #15      REQUIRED MONITORING FREQUENCY  
                  M      MONTHLY  
                  Q      QUARTERLY  
                  A      ANNUALLY  
                  N/A    DOES NOT REQUIRE MONITORING  
                  MIU    MONTHLY, WHEN IN USE  
                  AIU    ANNUALLY, WHEN IN USE

COLUMN #16      REMARKS

TABLE 1  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-100

1000	G	011	1	01	MAIN AXI	C-100	V	RAW GAS SUCTION BLOCKING VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1001	G	012	1	01	MAIN AXI	C-100	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1002	G	013	1	01	MAIN AXI	C-100	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1003	G	014	1	01	MAIN AXI	C-100	V	RAW GAS EXHAUST BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1004	G	010	1	01	MAIN AXI	C-100	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1005	G	009	1	01	MAIN AXI	C-100	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1006	G	015	1	01	MAIN AXI	C-100	V	EXHAUST NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1010	G	004	1	01	MAIN AXI	C-100	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1011	G	005	1	01	MAIN AXI	C-100	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1012	G	008	1	01	MAIN AXI	C-100	G	SAFETY WATER GAUGE	SAFETY WATER	RG	5.36	GV	Y	N/A
1012	G	007	1	01	MAIN AXI	C-100	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1014	G	008	1	01	MAIN AXI	C-100	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1015	G		1	01	MAIN AXI	C-100	SG	SIGHT GLASS	SAFETY WATER	RG	5.36	GV	Y	N/A
1020	G	001	1	01	MAIN AXI	C-100	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1021	G	002	1	01	MAIN AXI	C-100	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1022	G	003	1	01	MAIN AXI	C-100	V	SAFETY WATER	INJECTION WAT	RG	5.36	G	Y	Q
1023	G	016	1	01	MAIN AXI	C-100	V	RAW GAS EXHAUST CLEANOUT VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1030	G	018	1	01	MAIN AXI	C-100	VT	EXHAUST SEAL VENT	INJECTION WAT	RG	5.36	G	Y	Q
1031	G		1	01	MAIN AXI	C-100	SG	SIGHT GLASS		RG	5.36	G	Y	Q
1032	G	018	1	01	MAIN AXI	C-100	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1033	G	017	1	01	MAIN AXI	C-100	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1034	G	020	1	01	MAIN AXI	C-100	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q

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TABLE 2  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-105

1050	G	037	1	02	MAIN AXI	C-105	V	RAW GAS SUCTION BLOCKING VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1051	G	038	1	02	MAIN AXI	C-105	V	RAW GAS BY-PASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1052	G	039	1	02	MAIN AXI	C-105	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1053	G	040	1	02	MAIN AXI	C-105	V	RAW GAS EXHAUST BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1054	G	036	1	02	MAIN AXI	C-105	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1055			1	02	MAIN AXI	C-105	V		INACCESSIBLE	RG	5.36	G	N	A
1060	G	033	1	02	MAIN AXI	C-105	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1061			1	02	MAIN AXI	C-105	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1062	G	034	1	02	MAIN AXI	C-105	G	SAFETY WATER GAUGE	SAFETY WATER	RG	5.36	GV	Y	N/A
1063			1	02	MAIN AXI	C-105	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1064	G	035	1	02	MAIN AXI	C-105	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1070	G	026	1	02	MAIN AXI	C-105	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1071	G	028	1	02	MAIN AXI	C-105	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1072	G	030	1	02	MAIN AXI	C-105	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1073	G	032	1	02	MAIN AXI	C-105	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1074			1	02	MAIN AXI	C-105	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1075	G	029	1	02	MAIN AXI	C-105	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1076	G	027	1	02	MAIN AXI	C-105	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1077	G	042	1	02	MAIN AXI	C-105	V	RAW GAS EXHAUST CLEAN OUT VALVE	INACCESSIBLE	RG	5.36	G	Y	Q
1080	G	043	1	02	MAIN AXI	C-105	VT	EXHAUST SEAL VENT	INACCESSIBLE	RG	5.36	G	Y	Q
1081			1	02	MAIN AXI	C-105	SG	SIGHT GLASS	INACCESSIBLE	RG	5.36	G	Y	Q
1082	G	044	1	02	MAIN AXI	C-105	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1083	G	045	1	02	MAIN AXI	C-105	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1084	G	046	1	02	MAIN AXI	C-105	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q

TABLE 3  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-110

1100	G	064	1	03	MAIN AXI	C-110	V	RAW GAS SUCTION BLOCKING VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1101	G	065	1	03	MAIN AXI	C-110	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1102	G	066	1	03	MAIN AXI	C-110	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1103	G	067	1	03	MAIN AXI	C-110	V	RAW GAS EXHAUST BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1104	G	062	1	03	MAIN AXI	C-110	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1105	G	061	1	03	MAIN AXI	C-110	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1106	G	063	1	03	MAIN AXI	C-110	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1107	G	056	1	03	MAIN AXI	C-110	V	UNLOAD VALVE 4"	INACCESSIBLE	RG	5.36	GV	N	N/A
1108	G	068	1	03	MAIN AXI	C-110	V	EXHAUST NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1110	G	057	1	03	MAIN AXI	C-110	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1111	G	058	1	03	MAIN AXI	C-110	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1112	G	058	1	03	MAIN AXI	C-110	G	SAFETY WATER GAUGE	SAFETY WATER	RG	5.36	GV	Y	N/A
1113	G	059	1	03	MAIN AXI	C-110	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1114	G	060	1	03	MAIN AXI	C-110	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1120	G	051	1	03	MAIN AXI	C-110	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1121	G	053	1	03	MAIN AXI	C-110	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1122	G	054	1	03	MAIN AXI	C-110	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1123	G	052	1	03	MAIN AXI	C-110	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1124	G	055	1	03	MAIN AXI	C-110	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1125	G	069	1	03	MAIN AXI	C-110	V	RAW GAS EXHAUST CLEANOUT VALVE	RG	RG	5.36	G	Y	Q
1130	G	070	1	03	MAIN AXI	C-110	VT	EXHAUST SEAL VENT	RG	RG	5.36	G	Y	Q
1131					MAIN AXI	C-110	SG	SIGHT GLASS	RG	RG	5.36	G	Y	Q
1132	G	071	1	03	MAIN AXI	C-110	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1133	G	072	1	03	MAIN AXI	C-110	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1134	G	073	1	03	MAIN AXI	C-110	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q

TABLE 4  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-115

1151	G	085	1	04	MAIN AXI	C-115	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1152	G	086	1	04	MAIN AXI	C-115	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1153	G	087	1	04	MAIN AXI	C-115	V	RAW GAS OUTLET BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1154	G	083	1	04	MAIN AXI	C-115	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	A
1155	G	088	1	04	MAIN AXI	C-115	V	OUTLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1160	G	079	1	04	MAIN AXI	C-115	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1161	G	080	1	04	MAIN AXI	C-115	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1162	G	081	1	04	MAIN AXI	C-115	G	SAFETY WATER GAUGE	SAFETY WATER	RG	5.36	GV	Y	N/A
1163	G	084	1	04	MAIN AXI	C-115	V	SAFETY WATER CLEANOUT	SAFETY WATER	RG	5.36	GV	Y	N/A
1184	G	082	1	04	MAIN AXI	C-115	V	SAFETY WATER CONTROL VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1170	G	078	1	04	MAIN AXI	C-115	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1171	G	077	1	04	MAIN AXI	C-115	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1172	G	078	1	04	MAIN AXI	C-115	V	INJECTION WATER	INJECTION WAT	RG	5.36	G	Y	Q
1173	G	089	1	04	MAIN AXI	C-115	V	RAW GAS OUTLET CLEANOUT VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1180	G	090	1	04	MAIN AXI	C-115	VT	PRESSURE SEAL VENT		RG	5.36	G	Y	Q
1181								SIGHT GLASS		RG	5.36	G	Y	Q
1182	G	091	1	04	MAIN AXI	C-115	SG	PRESSURE SEAL VENT	RECYCLE LINE	RG	5.36	G	Y	Q
1183	G	092	1	04	MAIN AXI	C-115	V	PRESSURE SEAL VENT	RECYCLE LINE	RG	5.36	G	Y	Q
1184	G	093	1	04	MAIN AXI	C-115	V	PRESSURE SEAL VENT	RECYCLE LINE	RG	5.36	G	Y	Q

TABLE 5  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-120

1201	G	110	1	05	MAIN AXI	C-120	V	RAW GAS BYPASS BLOCKING VALVE	RG	5.36	G	N	A
1202	G	111	1	05	MAIN AXI	C-120	VT	RELIEF VALVE	RG	5.36	G	N	A
1203	G	112	1	05	MAIN AXI	C-120	V	RAW GAS OUTLET BLOCKING VALVE	RG	5.36	G	N	A
1204	G	108	1	05	MAIN AXI	C-120	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	GV	N	N/A
1205	G	113	1	05	MAIN AXI	C-120	V	OUTLET NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	G	N	A
1210	G	105	1	05	MAIN AXI	C-120	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1211	G	106	1	05	MAIN AXI	C-120	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1212	G	119	1	05	MAIN AXI	C-120	G	SAFETY WATER GAUGE	RG	5.36	GV	Y	N/A
1213	G	119	1	05	MAIN AXI	C-120	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1214	G	107	1	05	MAIN AXI	C-120	CV	SAFETY WATER CONTROL VALVE	RG	5.36	GV	Y	N/A
1220	G	101	1	05	MAIN AXI	C-120	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1221	G	102	1	05	MAIN AXI	C-120	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1222	G	103	1	05	MAIN AXI	C-120	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1223	G	104	1	05	MAIN AXI	C-120	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1224	G	114	1	05	MAIN AXI	C-120	V	RAW GAS OUTLET CLEANOUT VALVE	RG	5.36	G	Y	Q
1230	G	115	1	05	MAIN AXI	C-120	VT	PRESSURE SEAL VENT	RG	5.36	G	Y	Q
1231					MAIN AXI	C-120	SG	SIGHT GLASS	RG	5.36	G	Y	Q
1232	G	116	1	05	MAIN AXI	C-120	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q
1233	G	117	1	05	MAIN AXI	C-120	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q
1234	G	118	1	05	MAIN AXI	C-120	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q



TABLE 7  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-130

1300	G	161	1	07	MAIN AXI	C-130	V	RAW GAS INLET BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1301	G	162	1	07	MAIN AXI	C-130	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1302	G	163	1	07	MAIN AXI	C-130	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1303	G	164	1	07	MAIN AXI	C-130	V	RAW GAS OUTLET BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1304	G	160	1	07	MAIN AXI	C-130	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1305	G	165	1	07	MAIN AXI	C-130	V	OUTLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1310	G	155	1	07	MAIN AXI	C-130	V	SAFTETY WATER VALVE	SAFTETY WATER	RG	5.36	GV	Y	N/A
1311	G	156	1	07	MAIN AXI	C-130	V	SAFTETY WATER VALVE	SAFTETY WATER	RG	5.36	GV	Y	N/A
1312	G	157	1	07	MAIN AXI	C-130	G	SAFTETY WATER GAUGE	SAFTETY WATER	RG	5.36	GV	Y	N/A
1313	G	158	1	07	MAIN AXI	C-130	V	SAFTETY WATER VALVE	SAFTETY WATER	RG	5.36	GV	Y	N/A
1314	G	159	1	07	MAIN AXI	C-130	V	SAFTETY WATER VALVE	SAFTETY WATER	RG	5.36	GV	Y	N/A
1320	G	151	1	07	MAIN AXI	C-130	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1321	G	152	1	07	MAIN AXI	C-130	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1322	G	171	1	07	MAIN AXI	C-130	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1323	G	153	1	07	MAIN AXI	C-130	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1324	G	154	1	07	MAIN AXI	C-130	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1325	G	154	1	07	MAIN AXI	C-130	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1326	G	166	1	07	MAIN AXI	C-130	V	INJECTION WATER	INJECTION WATER	RG	5.36	G	Y	Q
1330	G	167	1	07	MAIN AXI	C-130	VT	RAW GAS OUTLET CLEANOUT VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1331	G	169	1	07	MAIN AXI	C-130	SG	PRESSURE SEAL VENT	RG	5.36	G	Y	Q	
1332	G	169	1	07	MAIN AXI	C-130	V	PRESSURE SEAL VENT	RG	5.36	G	Y	Q	
1333	G	168	1	07	MAIN AXI	C-130	V	PRESSURE SEAL VENT	RECYCLE LINE	RG	5.36	G	Y	Q
1334	G	170	1	07	MAIN AXI	C-130	V	PRESSURE SEAL VENT	RECYCLE LINE	RG	5.36	G	Y	Q
									RECYCLE LINE	RG	5.36	G	Y	Q

TABLE 8  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-135

1350	G	184	1	08	MAIN AXI	C-135	V	RAW GAS SUCTION BLOCKING VALVE	RG	5.36	GV	N	N/A
1351	G	185	1	08	MAIN AXI	C-135	V	RAW GAS BYPASS BLOCKING VALVE	RG	5.36	G	N	A
1352	G	186	1	08	MAIN AXI	C-135	VT	RELIEF VALVE	RG	5.36	G	N	A
1353	G	187	1	08	MAIN AXI	C-135	V	RAW GAS EXHAUST BLOCKING VALVE	RG	5.36	G	N	A
1354	G	189	1	08	MAIN AXI	C-135	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	GV	N	N/A
1355	G	188	1	08	MAIN AXI	C-135	V	EXHAUST NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	G	N	A
1360	G	190	1	08	MAIN AXI	C-135	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1361	G	181	1	08	MAIN AXI	C-135	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1362			1	08	MAIN AXI	C-135	G	SAFETY WATER GAUGE	RG	5.36	GV	Y	N/A
1363			1	08	MAIN AXI	C-135	V	SAFETY WATER CLEANOUT VALVE	RG	5.36	GV	Y	ADDED 12-95
1364			1	08	MAIN AXI	C-135	SG	SIGHT GLASS SIGHT GLASS	RG	5.36	GV	Y	ADDED 12-95
1365	G	182	1	08	MAIN AXI	C-135	V	SAFETY WATER CONTROL VALVE	RG	5.36	GV	Y	N/A
1370	G	176	1	08	MAIN AXI	C-135	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1371			1	08	MAIN AXI	C-135	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1372			1	08	MAIN AXI	C-135	V	INJECTION WATER CLEANOUT VALVE	RG	5.36	G	Y	Q
1373	G	178	1	08	MAIN AXI	C-135	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1374	G	179	1	08	MAIN AXI	C-135	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1375	G	189	1	08	MAIN AXI	C-135	V	RAW GAS EXHAUST CLEANOUT VALVE	RG	5.36	G	Y	Q
1380	G	190	1	08	MAIN AXI	C-135	VT	EXHAUST SEAL VENT	RG	5.36	G	Y	Q
1381			1	08	MAIN AXI	C-135	SG	SIGHT GLASS	RG	5.36	G	Y	Q
1382	G	192	1	08	MAIN AXI	C-135	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q
1383	G	191	1	08	MAIN AXI	C-135	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q

TABLE 9  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-140

1401	G	213	1	09	MAIN AXI	C-140	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1402	G	214	1	09	MAIN AXI	C-140	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1403	G	215	1	09	MAIN AXI	C-140	V	RAW GAS OUTLET BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1404	G	216	1	09	MAIN AXI	C-140	V	OUTLET CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1405	G	211	1	09	MAIN AXI	C-140	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	NIA
1406	G	210	1	09	MAIN AXI	C-140	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	NIA
1407	G	217	1	09	MAIN AXI	C-140	V	OUTLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1410	G	205	1	09	MAIN AXI	C-140	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	NIA
1411	G	206	1	09	MAIN AXI	C-140	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	NIA
1412	G	207	1	09	MAIN AXI	C-140	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	NIA
1413	G	208	1	09	MAIN AXI	C-140	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	NIA
1414			1	09	MAIN AXI	C-140	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	NIA
1415	G	209	1	09	MAIN AXI	C-140	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	NIA
1416			1	09	MAIN AXI	C-140	V	SAFETY WATER CONTROL VALVE	SAFETY WATER	RG	5.36	GV	Y	NIA
1417	G	223	1	09	MAIN AXI	C-140	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1420	G	201	1	09	MAIN AXI	C-140	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1421	G	203	1	09	MAIN AXI	C-140	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1422	G	202	1	09	MAIN AXI	C-140	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1433	G	218	1	08	MAIN AXI	C-140	V	RAW GAS OUTLET CLEANOUT VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1424	G	204	1	09	MAIN AXI	C-140	V	INJECTION WATER	INJECTION WAT	RG	5.36	G	Y	Q
1430	G	219	1	09	MAIN AXI	C-140	VT	PRESSURE SEAL VENT	INJECTION WAT	RG	5.36	G	Y	Q
1431			1	09	MAIN AXI	C-140	SG	SIGHT GLASS		RG	5.36	G	Y	Q
1432	G	221	1	09	MAIN AXI	C-140	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1433	G	220	1	09	MAIN AXI	C-140	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1434	G	222	1	09	MAIN AXI	C-140	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q

TABLE 10  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-1455

1451	G	238	1	10	MAIN AXI	C-145	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1452	G	239	1	10	MAIN AXI	C-145	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1453	G	240	1	10	MAIN AXI	C-145	V	RAW GAS OUTLET BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1454	G	236	1	10	MAIN AXI	C-145	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1455	G	231	1	10	MAIN AXI	C-145	V	4" UNLOAD LINE	INACCESSIBLE	RG	5.36	GV	N	N/A
1456	G	241	1	10	MAIN AXI	C-145	V	OUTLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1457	G	242	1	10	MAIN AXI	C-145	V	OUTLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1480	G	232	1	10	MAIN AXI	C-145	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1461	G	233	1	10	MAIN AXI	C-145	G	SAFETY WATER GAUGE	SAFETY WATER	RG	5.36	GV	Y	N/A
1462	G	234	1	10	MAIN AXI	C-145	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1463			1	10	MAIN AXI	C-145	SG	SAFETY WATER SIGHT GLASS	SAFETY WATER	RG	5.36	GV	Y	N/A
1464	G	235	1	10	MAIN AXI	C-145	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1470	G	238	1	10	MAIN AXI	C-145	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1471	G	227	1	10	MAIN AXI	C-145	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1472	G	229	1	10	MAIN AXI	C-145	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1473	G	228	1	10	MAIN AXI	C-145	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1474	G	230	1	10	MAIN AXI	C-145	V	INJECTION WATER	INJECTION WATER	RG	5.36	G	Y	Q
1475	G	243	1	10	MAIN AXI	C-145	V	RAW GAS OUTLET CLEANOUT LINE	INJECTION WATER	RG	5.36	G	Y	Q
1480	G	244	1	10	MAIN AXI	C-145	VT	PRESSURE SEAL VENT		RG	5.36	G	Y	Q
1481			1	10	MAIN AXI	C-145	SG	SIGHT GLASS		RG	5.36	G	Y	Q
1482	G	245	1	10	MAIN AXI	C-145	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1483	G	246	1	10	MAIN AXI	C-145	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1484	G	247	1	10	MAIN AXI	C-145	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q

TABLE 11  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-150

1500	G	262	1	11	MAIN AXI	C-150	V	RAW GAS INLET BLOCKING VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1501	G	263	1	11	MAIN AXI	C-150	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1502	G	264	1	11	MAIN AXI	C-150	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1503	G	265	1	11	MAIN AXI	C-150	V	RAW GAS OUTLET BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1504	G	261	1	11	MAIN AXI	C-150	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1505	G	256	1	11	MAIN AXI	C-150	V	4" UNLOAD LINE	INACCESSIBLE	RG	5.36	GV	Y	N/A
1506	G	257	1	11	MAIN AXI	C-150	V	4" UNLOAD LINE	INACCESSIBLE	RG	5.36	GV	Y	N/A
1507	G	266	1	11	MAIN AXI	C-150	V	OUTLET NOISE SUPPRESSOR CLEAN OUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1510	G	258	1	11	MAIN AXI	C-150	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1511	G	259	1	11	MAIN AXI	C-150	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1512			1	11	MAIN AXI	C-150	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1513			1	11	MAIN AXI	C-150	SG	SAFETY WATER SIGHT GLASS	SAFETY WATER	RG	5.36	GV	Y	N/A
1514	G	274	1	11	MAIN AXI	C-150	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1520	G	251	1	11	MAIN AXI	C-150	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1521	G	252	1	11	MAIN AXI	C-150	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1522	G	255	1	11	MAIN AXI	C-150	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1523	G	253	1	11	MAIN AXI	C-150	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1524	G	254	1	11	MAIN AXI	C-150	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1525	G	267	1	11	MAIN AXI	C-150	V	RAW GAS OUTLET CLEANOUT VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1530	G	268	1	11	MAIN AXI	C-150	VT	PRESSURE SEAL VENT		RG	5.36	G	Y	Q
1531			1	11	MAIN AXI	C-150	SG	SIGHT GLASS		RG	5.36	G	Y	Q
1532	G	270	1	11	MAIN AXI	C-150	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1533	G	269	1	11	MAIN AXI	C-150	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1534	G	271	1	11	MAIN AXI	C-150	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q

TABLE 12  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-155

1551	G	285	1	12	MAIN AXI	C-155	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.38	G	N	A
1552	G	286	1	12	MAIN AXI	C-155	VT	RELIEF VALVE	INACCESSIBLE	RG	5.38	G	N	A
1553	G	287	1	12	MAIN AXI	C-155	V	RAW GAS OUTLET BLOCKING VALVE	INACCESSIBLE	RG	5.38	G	N	A
1554	G	283	1	12	MAIN AXI	C-155	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.38	GV	N	N/A
1555	G	288	1	12	MAIN AXI	C-155	V	OUTLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.38	G	N	A
1556			1	12	MAIN AXI	C-155	G	INLET NOISE SUPPRESSOR PRESSURE GAUGE	INACCESSIBLE	RG	5.38	GV	N	ADDED 12-95
1560			1	12	MAIN AXI	C-155	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.38	GV	Y	N/A
1561	G	280	1	12	MAIN AXI	C-155	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.38	GV	Y	N/A
1562	G	281	1	12	MAIN AXI	C-155	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.38	GV	Y	N/A
1563	G	282	1	12	MAIN AXI	C-155	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.38	GV	Y	N/A
1570	G	276	1	12	MAIN AXI	C-155	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.38	G	Y	Q
1571	G	279	1	12	MAIN AXI	C-155	V	INJECTION WATER CLEANOUT VALVE	INJECTION WATER	RG	5.38	G	Y	Q
1572	G	277	1	12	MAIN AXI	C-155	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.38	G	Y	Q
1573	G	278	1	12	MAIN AXI	C-155	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.38	G	Y	Q
1574	G	289	1	12	MAIN AXI	C-155	V	RAW GAS OUTLET CLEANOUT VALVE		RG	5.38	G	Y	Q
1575	G	290	1	12	MAIN AXI	C-155	V	RAW GAS OUTLET CLEANOUT VALVE		RG	5.38	G	Y	Q
1580	G	291	1	12	MAIN AXI	C-155	VT	PRESSURE SEAL VENT		RG	5.38	G	Y	Q
1591			1	12	MAIN AXI	C-155	SG	SIGHT GLASS		RG	5.38	G	Y	Q
1582	G	292	1	12	MAIN AXI	C-155	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.38	G	Y	Q
1583	G	293	1	12	MAIN AXI	C-155	V	PRESSURE SEAL VENT RECYCLE LINE CLEANOUT VA	RECYCLE LINE	RG	5.38	G	Y	Q
1584	G	294	1	12	MAIN AXI	C-155	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.38	G	Y	Q

TABLE 13  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-160

1600	G	310	1	13	MAIN AXI	C-160	V	RAW GAS INLET BLOCKING VALVE	RG	5.36	GV	N	N/A
1601	G	311	1	13	MAIN AXI	C-160	V	RAW GAS BYPASS BLOCKING VALVE	RG	5.36	G	N	A
1602	G	312	1	13	MAIN AXI	C-160	VT	RELIEF VALVE	RG	5.36	G	N	A
1603	G	313	1	13	MAIN AXI	C-160	V	RAW GAS OUTLET BLOCKING VALVE	RG	5.36	G	N	A
1604	G	309	1	13	MAIN AXI	C-160	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	GV	N	N/A
1605	G	314	1	13	MAIN AXI	C-160	V	OUTLET NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	G	N	A
1610	G	304	1	13	MAIN AXI	C-160	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1611	G	305	1	13	MAIN AXI	C-160	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1612	G	307	1	13	MAIN AXI	C-160	V	SAFETY WATER CONTROL VALVE	RG	5.36	GV	Y	N/A
1613			1	13	MAIN AXI	C-160	SG	SAFETY WATER SIGHT GLASS	RG	5.36	GV	Y	N/A
1614	G	308	1	13	MAIN AXI	C-160	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1620	G	301	1	13	MAIN AXI	C-160	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1621	G	302	1	13	MAIN AXI	C-160	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1622	G	303	1	13	MAIN AXI	C-160	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1623	G	315	1	13	MAIN AXI	C-160	V	RAW GAS OUTLET CLEANOUT VALVE	RG	5.36	G	Y	Q
1630	G	316	1	13	MAIN AXI	C-160	VT	PRESSURE SEAL VENT	RG	5.36	G	Y	Q
1631			1	13	MAIN AXI	C-160	SG	SIGHT GLASS	RG	5.36	G	Y	Q
1632	G	318	1	13	MAIN AXI	C-160	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q
1633	G	317	1	13	MAIN AXI	C-160	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q
1634	G	319	1	13	MAIN AXI	C-160	V	PRESSURE SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q

TABLE 14  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-165

1651	G	337	1	14	MAIN AXI	C-165	V	RAW GAS BYPASS BLOCKING VALVE	RG	5.36	G	N	A
1652	G	338	1	14	MAIN AXI	C-165	VT	RELIEF VALVE	RG	5.36	G	N	A
1653	G	339	1	14	MAIN AXI	C-165	V	RAW GAS EXHAUST BLOCKING VALVE	RG	5.36	G	N	A
1654	G	335	1	14	MAIN AXI	C-165	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	GV	N	N/A
1655	G	340	1	14	MAIN AXI	C-165	V	EXHAUST NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	G	N	A
1660	G	330	1	14	MAIN AXI	C-165	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1661	G	331	1	14	MAIN AXI	C-165	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1662	G	333	1	14	MAIN AXI	C-165	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1663			1	14	MAIN AXI	C-165	SG	SAFETY WATER SIGHT GLASS	RG	5.36	GV	Y	N/A
1664	G	334	1	14	MAIN AXI	C-165	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1670	G	326	1	14	MAIN AXI	C-165	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1671	G	328	1	14	MAIN AXI	C-165	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1672	G	327	1	14	MAIN AXI	C-165	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1673	G	329	1	14	MAIN AXI	C-165	V	RAW GAS EXHAUST CLEANOUT VALVE	RG	5.36	G	Y	Q
1674	G	341	1	14	MAIN AXI	C-165	V	RAW GAS EXHAUST CLEANOUT VALVE	RG	5.36	G	Y	Q
1680	G	342	1	14	MAIN AXI	C-165	VT	EXHAUST SEAL VENT	RG	5.36	G	Y	Q
1681			1	14	MAIN AXI	C-165	SG	SIGHT GLASS	RG	5.36	G	Y	Q
1682	G	343	1	14	MAIN AXI	C-165	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q
1683	G	344	1	14	MAIN AXI	C-165	V	EXHAUST SEAL VENT RECYCLE LINE CLEANOUT VAL	RG	5.36	G	Y	Q
1684	G	345	1	14	MAIN AXI	C-165	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q

TABLE 15  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-170

1700	G	365	1	15	MAIN AXI	C-170	V	RAW GAS INLET BLOCKING VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1701	G	366	1	15	MAIN AXI	C-170	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1702	G	367	1	15	MAIN AXI	C-170	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1703	G	368	1	15	MAIN AXI	C-170	V	RAW GAS EXHAUST BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1704	G	364	1	15	MAIN AXI	C-170	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1705	G	363	1	15	MAIN AXI	C-170	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	ADDED 12-95
1706	G	362	1	15	MAIN AXI	C-170	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1707	G	362	1	15	MAIN AXI	C-170	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	ADDED 12-95
1708	G	362	1	15	MAIN AXI	C-170	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1709	G	369	1	15	MAIN AXI	C-170	V	EXHAUST NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	N/A
1710	G	369	1	15	MAIN AXI	C-170	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1711	G	360	1	15	MAIN AXI	C-170	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1712	G	367	1	15	MAIN AXI	C-170	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	N	ADDED 12-95
1713	G	375	1	15	MAIN AXI	C-170	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	N	N/A
1714			1	15	MAIN AXI	C-170	SG	SAFETY WATER SIGHT GLASS	SAFETY WATER	RG	5.36	GV	N	ADDED 12-95
1715	G	381	1	15	MAIN AXI	C-170	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1720	G	352	1	15	MAIN AXI	C-170	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1721	G	351	1	15	MAIN AXI	C-170	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1722	G	353	1	15	MAIN AXI	C-170	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1723	G	355	1	15	MAIN AXI	C-170	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1724	G	354	1	15	MAIN AXI	C-170	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1725	G	355	1	15	MAIN AXI	C-170	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1730	G	371	1	15	MAIN AXI	C-170	VT	EXHAUST SEAL VENT	INJECTION WAT	RG	5.36	G	Y	Q
1731			1	15	MAIN AXI	C-170	SG	SIGHT GLASS		RG	5.36	G	Y	Q
1732	G	373	1	15	MAIN AXI	C-170	V	EXHAUST SEAL VENT	RECYCLE LINE	RG	5.36	G	Y	Q
1733	G	372	1	15	MAIN AXI	C-170	V	EXHAUST SEAL VENT	RECYCLE LINE	RG	5.36	G	Y	Q
1734	G	374	1	15	MAIN AXI	C-170	V	EXHAUST SEAL VENT	RECYCLE LINE	RG	5.36	G	Y	Q
1740	G	357	1	15	MAIN AXI	C-170	V	4" UNLOAD VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1741	G	358	1	15	MAIN AXI	C-170	V	4" UNLOAD VALVE	RECYCLE LINE	RG	5.36	GV	Y	N/A
										RG	5.36	GV	Y	N/A

TABLE 16  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-175

1750	G	385	1	16	MAIN AXI	C-175	V	RAW GAS INLET BLOCKING VALVE	RG	5.36	GV	N	N/A
1751	G	386	1	16	MAIN AXI	C-175	V	REW GAS BYPASS BLOCKING VALVE	RG	5.36	G	N	A
1752	G	387	1	16	MAIN AXI	C-175	VT	RELIEF VALVE	RG	5.36	G	N	A
1753	G	388	1	16	MAIN AXI	C-175	V	RAW GAS EXHAUST BLOCKING VALVE	RG	5.36	G	N	A
1754	G	384	1	16	MAIN AXI	C-175	V	INLET NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	GV	N	A
1755	G	389	1	16	MAIN AXI	C-175	V	EXHAUST NOISE SUPPRESSOR CLEANOUT VALVE	RG	5.36	G	N	A
1760	G	381	1	16	MAIN AXI	C-175	V	SAFETY WATER VALVE	RG	5.36	GV	N	A
1761	G	382	1	16	MAIN AXI	C-175	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1762			1	16	MAIN AXI	C-175	SG	SAFETY WATER SIGHT GLASS	RG	5.36	GV	Y	N/A
1783	G	383	1	16	MAIN AXI	C-175	V	SAFETY WATER VALVE	RG	5.36	GV	Y	N/A
1770	G	376	1	16	MAIN AXI	C-175	V	INJECTION WATER VALVE	RG	5.36	GV	Y	N/A
1771	G	378	1	16	MAIN AXI	C-175	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1772	G	377	1	16	MAIN AXI	C-175	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1773	G	379	1	16	MAIN AXI	C-175	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1774	G	380	1	16	MAIN AXI	C-175	V	INJECTION WATER VALVE	RG	5.36	G	Y	Q
1775	G	380	1	16	MAIN AXI	C-175	V	RAW GAS EXHAUST CLEANOUT VALVE	RG	5.36	G	Y	Q
1780	G	391	1	16	MAIN AXI	C-175	VT	EXHAUST SEAL VENT	RG	5.36	G	Y	Q
1781			1	16	MAIN AXI	C-175	SG	SIGHT GLASS	RG	5.36	G	Y	Q
1782	G	392	1	16	MAIN AXI	C-175	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q
1783	G	393	1	16	MAIN AXI	C-175	V	EXHAUST SEAL VENT RECYCLE LINE CLEANOUT VAL	RG	5.36	G	Y	Q
1784	G	395	1	16	MAIN AXI	C-175	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RG	5.36	G	Y	Q

TABLE 17  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-180

1800	G	413	1	17	MAIN AXI	C-180	V	RAW GAS SUCTION BLOCKING VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1801	G	414	1	17	MAIN AXI	C-180	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1802	G	415	1	17	MAIN AXI	C-180	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1803	G	416	1	17	MAIN AXI	C-180	V	RAW GAS EXHAUST BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1804	G	412	1	17	MAIN AXI	C-180	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	A
1805	G	411	1	17	MAIN AXI	C-180	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1806	G	417	1	17	MAIN AXI	C-180	V	EXHAUST NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1810	G	405	1	17	MAIN AXI	C-180	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	G	N	A
1811	G	406	1	17	MAIN AXI	C-180	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	Q
1812	G	407	1	17	MAIN AXI	C-180	G	SAFETY WATER GAUGE	SAFETY WATER	RG	5.36	GV	Y	N/A
1813	G	407	1	17	MAIN AXI	C-180	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1814	G	408	1	17	MAIN AXI	C-180	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1815	G	409	1	17	MAIN AXI	C-180	SG	SAFETY WATER SIGHT GLASS	SAFETY WATER	RG	5.36	GV	Y	N/A
1816	G	410	1	17	MAIN AXI	C-180	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1820	G	401	1	17	MAIN AXI	C-180	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1821	G	403	1	17	MAIN AXI	C-180	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1822	G	402	1	17	MAIN AXI	C-180	V	INJECTION WATER VALVE	INJECTION WATER	RG	5.36	G	Y	Q
1823	G	404	1	17	MAIN AXI	C-180	V	INJECTION WATER	INJECTION WATER	RG	5.36	G	Y	Q
1830	G	418	1	17	MAIN AXI	C-180	VT	EXHAUST SEAL VENT	INJECTION WATER	RG	5.36	G	Y	Q
1831			1	17	MAIN AXI	C-180	SG	SIGHT GLASS		RG	5.36	G	Y	Q
1832	G	419	1	17	MAIN AXI	C-180	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1833	G	420	1	17	MAIN AXI	C-180	V	EXHAUST SEAL VENT RECYCLE LINE CLEANOUT VAL	RECYCLE LINE	RG	5.36	G	Y	Q
1834	G	421	1	17	MAIN AXI	C-180	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1835	G	422	1	17	MAIN AXI	C-180	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q

TABLE 18  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
MAIN AXI C-185

1850	G	439	1	18	MAIN AXI	C-185	V	RAW GAS SUCTION BLOCKING VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1851	G	440	1	18	MAIN AXI	C-185	V	RAW GAS BYPASS BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1852	G	441	1	18	MAIN AXI	C-185	VT	RELIEF VALVE	INACCESSIBLE	RG	5.36	G	N	A
1853	G	442	1	18	MAIN AXI	C-185	V	RAW GAS EXHAUST BLOCKING VALVE	INACCESSIBLE	RG	5.36	G	N	A
1854	G	438	1	18	MAIN AXI	C-185	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1855	G	437	1	18	MAIN AXI	C-185	V	SUCTION NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	GV	N	N/A
1856	G	443	1	18	MAIN AXI	C-185	V	EXHAUST NOISE SUPPRESSOR CLEANOUT VALVE	INACCESSIBLE	RG	5.36	G	N	A
1860	G	431	1	18	MAIN AXI	C-185	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1861	G	432	1	18	MAIN AXI	C-185	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1862	G	433	1	18	MAIN AXI	C-185	G	SAFETY WATER GAUGE	SAFETY WATER	RG	5.36	GV	Y	N/A
1863	G	434	1	18	MAIN AXI	C-185	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1864	G	435	1	18	MAIN AXI	C-185	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1865	G	436	1	18	MAIN AXI	C-185	SG	SAFETY WATER SIGHT GLASS	SAFETY WATER	RG	5.36	GV	Y	N/A
1866	G	436	1	18	MAIN AXI	C-185	V	SAFETY WATER VALVE	SAFETY WATER	RG	5.36	GV	Y	N/A
1870	G	426	1	18	MAIN AXI	C-185	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1871	G	427	1	18	MAIN AXI	C-185	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1872	G	429	1	18	MAIN AXI	C-185	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1873	G	428	1	18	MAIN AXI	C-185	V	INJECTION WATER VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1874	G	430	1	18	MAIN AXI	C-185	V	INJECTION WATER	INJECTION WAT	RG	5.36	G	Y	Q
1875	G	444	1	18	MAIN AXI	C-185	V	RAW GAS EXHAUST CLEANOUT VALVE	INJECTION WAT	RG	5.36	G	Y	Q
1880	G	445	1	18	MAIN AXI	C-185	VT	EXHAUST SEAL VENT	RG	5.36	G	Y	Q	
1881			1	18	MAIN AXI	C-185	SG	SIGHT GLASS	RG	5.36	G	Y	Q	
1882	G	446	1	18	MAIN AXI	C-185	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1883	G	447	1	18	MAIN AXI	C-185	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q
1884	G	448	1	18	MAIN AXI	C-185	V	EXHAUST SEAL VENT RECYCLE LINE VALVE	RECYCLE LINE	RG	5.36	G	Y	Q

TABLE 19  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
LIGHT OIL DECANT AREA

2000 B 058	1	19	LO PUMP	P-201C V	P-201C SUCTION BLOCKING	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2001 B 057	1	19	LO PUMP	P-201C V	P-201C SUCTION CLEANOUT	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2002 B 054	1	19	LO PUMP	P-201C P	P-201 C MAGNETIC	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2003 B 052	1	19	LO PUMP	P-201C V	P-201C OUTLET	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2004 B 053	1	19	LO PUMP	P-201C G	P 201C OUTLET PRESSURE	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2005	1	19	LO PUMP	P-201C V	P-201C OUTLET	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2006	1	19	LO PUMP	P-201C V	P-201C OUTLET	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2007 B 051	1	19	LO PUMP	P-201C V	P-201C OUTLET BLOCK	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2010 B 064	1	19	LO PUMP	P-203C V	P-203C INLET	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2011 B 083	1	19	LO PUMP	P-203C V	P-203C SUCTION CLEANOUT	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2012 B 062	1	19	LO PUMP	P-203C P	P-203C MAGNETIC	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2013 B 060	1	19	LO PUMP	P-203C V	P 203C OUTLET PRESSURE	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2014 B 051	1	19	LO PUMP	P-203C G	P 203 C OUTLET PRESSURE	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2015	1	19	LO PUMP	P-203C V	P 203 C OUTLET CLEANOUT	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2016 B 058	1	19	LO PUMP	P-203C V	P 203C OUTLET BLOCK	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2018 B 072	1	19	LO PUMP	P-202C V	P 202C	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2019	1	19	LO PUMP	P-202C V	P 202C SUCTION CLEANOUT	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2020 B 074	1	19	LO PUMP	P-202C V	P 202C	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2021 B 069	1	19	LO PUMP	P-202C P	P-202C MAGNETIC	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2023 B 073	1	19	LO PUMP	P-202C G	P-202C OUTLET PRESSURE	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2024 B 071	1	19	LO PUMP	P-202C V	P 202C OUTLET	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2025 B 070	1	19	LO PUMP	P-202C V	P 202C OUTLET	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2026	1	19	LO PUMP	P-202C V	P 202C OUTLET	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2027 B 067	1	19	LO PUMP	P-202C V	P 202C	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2028 B 076	1	19	LO PUMP	PO21I/1 V	SUCTION HEADER CLEANOUT	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2029 B 075	1	19	LO PUMP	PO21I/2 V	DISCHARGE HEADER CLEANOUT	RIGHT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2030 B 013	1	19	LO TANK	D-201 V	MAKE UP WATER	LEFT SIDE	LO	57.63	L	Y	M	MAG SMLS PUMP
2031 B 014	1	19	LO TANK	D-201 V	BOTTOM DRAIN	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2032 B 016	1	19	LO TANK	D-201 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2033 B 018	1	19	LO TANK	D-201 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2034 B 017	1	19	LO TANK	D-201 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2035 B 019	1	19	LO TANK	D-201 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2036 B 020	1	19	LO TANK	D-201 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2037 B 015	1	19	LO TANK	D-201 MH	D-201 MANWAY	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2038 B 035	1	19	LO TANK	D-201 F	BLIND FLANGE SIDE OF TANK	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2039 B 022	1	19	LO TANK	D-201 V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2040 B 023	1	19	LO TANK	D-201 V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2041 B 021	1	19	LO TANK	D-201 V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2042 B 024	1	19	LO TANK	D-201 V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2043 B 077	1	19	LO TANK	D-201 V	TOP CLEAN OUT	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2044 B 078	1	19	LO TANK	D-201 V	TOP CLEAN OUT	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2045 B 080	1	19	LO TANK	D-201 V	VENT	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2046 B 079	1	19	LO TANK	D-201 V	RELIEF	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2047 B 081	1	19	LO TANK	D-201 V	LO RETURN	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2048	1	19	LO TANK	D-201 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2050 B 025	1	19	LO TANK	D-202 V	BOTTOM DRAIN VALVE	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2051 B 026	1	19	LO TANK	D-202 V	BOTTOM DRAIN CLEANOUT	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2052 B 027	1	19	LO TANK	D-202 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2053 B 028	1	19	LO TANK	D-202 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2054 B 029	1	19	LO TANK	D-202 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2055 B 031	1	19	LO TANK	D-202 V	SIGHT GLASS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM

2056	B	037	1	19	LO TANK	D-202	MH	MANWAY D-202	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2057	B	036	1	19	LO TANK	D-202	F	BLIND FLANGE SIDE OF TANK	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2058	B	032	1	19	LO TANK	D-202	V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2059	B	033	1	19	LO TANK	D-202	V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2060	B	030	1	19	LO TANK	D-202	V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2061	B	034	1	19	LO TANK	D-202	V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2062	B	084	1	19	LO TANK	D-202	V	TOP CLEANOUT	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2063	B	086	1	19	LO TANK	D-202	V	RELIEF	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2064	B	085	1	19	LO TANK	D-202	V	VENT	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2065	B	087	1	19	LO TANK	D-202	V	LO RETURN	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2066	B	082	1	19	LO TANK	D-201/2/	V	LO RETURN TO #2	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2067	B	033	1	19	LO TANK	D-201/2/	V	LO FROM FINAL COOLERS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2070	B	041	1	19	LO TANK	D-203	V	BOTTOM DRAIN	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2071	B	040	1	19	LO TANK	D-203	V	BOTTOM DRAIN CLEANOUT	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2072	B	042	1	19	LO TANK	D-203	V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2073	B	043	1	19	LO TANK	D-203	V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2074	B	044	1	19	LO TANK	D-203	V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2075	B	045	1	19	LO TANK	D-203	V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2076	B	046	1	19	LO TANK	D-203	V	LEVEL CONTROL	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2077	B	049	1	19	LO TANK	D-203	F	OPEN END TOP SIDE	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2078	B	047	1	19	LO TANK	D-203	V	BLIND FLANGE SIDE OF TANK	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2079	B	048	1	19	LO TANK	D-203	MH	OPEN END (SIGHT GLASS)	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2080	B	090	1	19	LO TANK	D-203	V	MAN WAY	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2081	B	092	1	19	LO TANK	D-203	V	RELIEF	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2082	B	050	1	19	LO TANK	D-203	V	VENT LINE	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2083	B	089	1	19	LO TANK	D-203	F	BLIND FLANGE SIDE OF TANK	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2084	B	088	1	19	LO TANK	D-201/2/	V	LO RETURN	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2085	B	038	1	19	LO TANK	D-201/2/	V	VENT EQUALIZER TO FINAL COOLERS	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2086	B	039	1	19	LO TANK	D-203	V	SIDE DRAIN	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2087	B	091	1	19	LO TANK	D-203	V	SIDE DRAIN CLEANOUT	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2090	B	002	1	19	LO TANK	D-201/2/	V	TOP CLEANOUT	LEFT SIDE	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2091	B	003	1	19	LO TANK	D-201/2/	V	CONTROL STATION BLOCKING VALVE FROM #2	BESIDE STAIRS	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2092	B	004	1	19	LO TANK	D-201/2/	V	CONTROL STATION CLEAN OUT VALVE FROM #2	BESIDE STAIRS	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2093	B	005	1	19	LO TANK	UCV 201	V	CONTROL VALVE FROM #2	BESIDE STAIRS	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2094	B	006	1	19	LO TANK	D-201/2/	V	CONTROL STATION CLEANOUT VALVE FROM #2	BESIDE STAIRS	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2095	B	001	1	19	LO TANK	D-201/2/	V	CONTROL STATION BLOCKING VALVE FROM #2	BESIDE STAIRS	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2096	B	093	1	19	LO TANK	D-201/2/	OP	CONTROL STATION BYPASS VALVE FROM #2	BESIDE STAIRS	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
2097	B	094	1	19	LO TANK	D-201/2/	OP	ORIFICE PLATE	BESIDE STAIRS	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM
								ORIFICE PLATE	BESIDE STAIRS	LO	57.63	L	Y	M	FINAL COOLER WASH SYSTEM



2181	A	221	1	20	FINAL COOL	T-203	V	VENT EQUALIZER GROUND LEVEL VALVE	LO	60.00	G	N	A	FINAL COOLER LO WASH SYSTEM
2182	B	135	1	20	FINAL COOL	T-203	V	VENT EQUALIZER VALVE TOP LEVEL	LO	57.63	L	Y	M	FINAL COOLER LO WASH SYSTEM
2183	A	222	1	20	FINAL COOL	T-203	V	VENT EQUALIZER GROUND LEVEL VALVE	LO	60.00	G	N	A	FINAL COOLER LO WASH SYSTEM
2184	B	134	1	20	FINAL COOL	T-203	V	LO WASH VALVE TOP LEVEL	LO	57.63	L	Y	M	FINAL COOLER LO WASH SYSTEM
2185	B	102	1	20	FINAL COOL	T-203	V	LO WASH VALVE GROUND LEVEL	LO	57.63	L	Y	M	FINAL COOLER LO WASH SYSTEM
2186	B	101	1	20	FINAL COOL	T-203	V	LO WASH VALVE GROUND LEVEL	LO	57.63	L	Y	M	FINAL COOLER LO WASH SYSTEM
2187	B	103	1	20	FINAL COOL	T-203	V	LO WASH VALVE GROUND LEVEL	LO	57.63	L	Y	M	FINAL COOLER LO WASH SYSTEM
2188	B	133	1	20	FINAL COOL	T-203	V	LO WASH VALVE TOP LEVEL BELOW WALKWAY	LO	57.63	L	Y	M	FINAL COOLER LO WASH SYSTEM

LEVEL 3

TABLE 21  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
SUPER STILL AREA

ID	QTY	DESCRIPTION	UNIT	LOCATION	STATUS	DATE	REMARKS
2200 B 251	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2201 B 255	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2202 B 252	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2203 B 254	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2204 B 253	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2205 B 250	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2206 B 249	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2207 B 248	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2208 B 247	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2209 B 256	1	21 SUPER STILL	T-207	LO FROM CONTROL ROOM 2 CONTROL STATION			
2215 B 194	1	21 PUMP	P-207D	LO TO SUPER STILL DRAIN VALVE OVER ROAD			
2216 B 193	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2217 B 197	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2218 B 198	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2219 B 196	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2220 B 195	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2221 B 199	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2222 B 210	1	21 PUMP	P-207C	SUPER STILL LO RECIRCULATING PUMP SEAL			
2223							
2224 B 201	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2225 B 200	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2226 B 202	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2227 B 203	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2228 B 204	1	21 PUMP	P-207D	SUPER STILL LO VALVE			
2229 B 205	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2236 B 206	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2237 B 207	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2238 B 211	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2239 B 208	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2240 B 209	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2241 B 213	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2242 B 212	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2244 B 215	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2245 B 216	1	21 PUMP	P-207C	SUPER STILL LO VALVE			
2246 B 257	1	21 SUPER STILL	P-207C/VT	RELIEF VALVE			
2255 B 219	1	21 LO SEP	T-208B	LO SEPARATOR BOTTOM DRAIN			
2256 B 218	1	21 LO SEP	T-208B	LO SEPARATOR BOTTOM DRAIN			
2257 B 221	1	21 LO SEP	T-208B	LO SEPARATOR BOTTOM DRAIN			
2258 B 220	1	21 LO SEP	T-208B	LO SEPARATOR BOTTOM DRAIN			
2259							
2260 B 241	1	21 LO SEP	T-208B	LO SEPARATOR FEED BLOCKING VALVE			
2261 B 242	1	21 LO SEP	T-208B	SIGHT GLASS/ LEVEL CONTROL VALVE			
2262 B 243	1	21 LO SEP	T-208B	SIGHT GLASS/ LEVEL CONTROL VALVE			
2263 B 246	1	21 LO SEP	T-208B	SIGHT GLASS/ LEVEL CONTROL VALVE			
2264							
2265 B 244	1	21 LO SEP	T-208B	LEVEL CONTROL			
2266 B 245	1	21 LO SEP	T-208B	SIGHT GLASS/ LEVEL CONTROL VALVE			
2267 B 217	1	21 LO SEP	T-208B	SIGHT GLASS/ LEVEL CONTROL VALVE			
2268 B 239	1	21 LO SEP	T-208B	RELIEF VALVE			
2270 B 235	1	21 PUMP	P-207G	T-208B MANWAY			
				T-208B RECIRCULATION AND TRANSFER PUMP SEAL			

2271	B	225	1	21	LO SEP	T-208B V	PUMP	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	M	FINAL COOLER LO WASH SYSTEM
2272	B	233	1	21	PUMP	P-207H V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2273	B	228	1	21	LO SEP	T-208B V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2274	B	224	1	21	LO SEP	T-208B V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2275	B	223	1	21	LO SEP	P-207H V	PUMP	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	M	FINAL COOLER LO WASH SYSTEM
2276	B	222	1	21	LO SEP	T-208B V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2277	B	229	1	21	LO SEP	T-208B V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2278	B	236	1	21	PUMP	P-207G V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2279	B	234	1	21	PUMP	P-207G V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2280	B	237	1	21	PUMP	P-207G V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2281	B	232	1	21	PUMP	P-207H V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2282	B	227	1	21	LO SEP	T-208B V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2283	B	238	1	21	LO SEP	T-208B V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2284	B	231	1	21	PUMP	P-207H V	TRANSFER PUMP CONTROL STATION VALVE	LO	57.63	L	Y	Y	M	SUPER STILL LO INJ AND SEP
2285	B	230	1	21	PUMP	P-207H V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2286	B	264	1	21	LO SEP	T-208B V	LO RECIRCULATION AND TRANSFER LOOP VALVE	LO	57.63	L	Y	Y	M	FINAL COOLER LO WASH SYSTEM
2290	B	265	1	21	SUPER STILL	T-207 VT	RELIEF VALVE	LO	57.63	L	N	N	A	16' UP
2291	C	458	2	21	SUPER STILL	T-207 V	CONTROL STATION BLOCKING VALVE TO MM	RG	5.40	GV	N	N	N/A	TOP OF SUPER STILL
2292	C	459	2	21	SUPER STILL	T-207 V	CONTROL VALVE TO MM	RG	5.40	GV	Y	Y	N/A	TOP OF STILL
2293	C	460	2	21	SUPER STILL	T-207 V	CONTROL STATION BLOCKING VALVE TO MM	RG	5.40	GV	Y	Y	N/A	TOP OF STILL
2294	C	461	2	21	SUPER STILL	T-207 V	CONTROL STATION BYPASS VALVE TO MM	RG	5.40	GV	Y	Y	N/A	TOP OF STILL
2295	C	462	2	21	SUPER STILL	T-207 V	CLEANOUT VALVE LINE TO MM	RG	5.40	GV	Y	Y	N/A	TOP OF STILL
2296	C	463	2	21	SUPER STILL	T-207 V	BLOCKING VALVE LINE TO MM	RG	5.40	GV	Y	Y	N/A	TOP OF STILL



2352	A	224	1	22	SUPER STILL SPIRAL	V	SUPER STILL SPIRAL 12 INLET CLEANOUT	#12 IN	LO	60.00	L	Y	M	FINAL COOLER LO WASH SYSTEM
2353	B	157	1	22	SUPER STILL SPIRAL	V	SUPER STILL LO VALVE	#12 OUT	LO	57.63	L	Y	M	FINAL COOLER LO WASH SYSTEM
2354	B	158	1	22	SUPER STILL SPIRAL	V	SUPER STILL LO VALVE	#12 OUT	LO	57.63	L	N	A	FINAL COOLER LO WASH SYSTEM

TABLE 23  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
VACUUM MACHINE C-500

3000	A	020	2	23	VAC MACH	C-500	V	STEAM	EDUCTOR LINE	STEAM	SG	16.00	GV	Y	N/A
3001	A	019	2	23	VAC MACH	C-500	V	STEAM	EDUCTOR LINE CLEANOUT	STEAM	SG	16.00	GV	Y	N/A
3002	A	018	2	23	VAC MACH	C-500	V	STEAM	EDUCTOR LINE	STEAM	SG	16.00	GV	Y	N/A
3003	A	017	2	23	VAC MACH	C-500	V	STEAM	EDUCTOR LINE	STEAM	SG	16.00	GV	Y	N/A
3004	A	021	2	23	VAC MACH	C-500	V	STEAM	EDUCTOR LINE	STEAM	SG	16.00	GV	Y	N/A
3005	A	022	2	23	VAC MACH	C-500	G	STEAM	EDUCTOR LINE GAUGE	STEAM	SG	16.00	GV	Y	N/A
3006	A	023	2	23	VAC MACH	C-500	V	STEAM	EDUCTOR LINE	STEAM	SG	16.00	GV	Y	N/A
3007	A	015	2	23	VAC MACH	C-500	G	STEAM	EDUCTOR LINE GAUGE	STEAM	SG	16.00	GV	Y	N/A
3008	A	016	2	23	VAC MACH	C-500	G	STEAM	EDUCTOR LINE GAUGE	STEAM	SG	16.00	GV	Y	N/A
3009	A	482	2	23	VAC MACH	C-500	V	STEAM	EDUCTOR LINE	STEAM	SG	16.00	GV	Y	N/A
3010	A	483	2	23	VAC MACH	C-500	G	STEAM	EDUCTOR LINE	STEAM	SG	16.00	GV	Y	N/A
3011															
3020	A	013	2	23	VAC MACH	C-500	V	SEAL OIL	DRAIN VALVE	SEAL OIL	SG	16.00	GV	Y	N/A
3021	A	014	2	23	VAC MACH	C-500	SG	SEAL OIL	DRAIN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3022	A	011	2	23	VAC MACH	C-500	V	SEAL OIL	DRAIN VALVE	SEAL OIL	SG	16.00	G	Y	M
3023	A	012	2	23	VAC MACH	C-500	SG	SEAL OIL	DRAIN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3024	A	009	2	23	VAC MACH	C-500	V	SEAL OIL	DRAIN VALVE	SEAL OIL	SG	16.00	G	Y	M
3025	A	010	2	23	VAC MACH	C-500	SG	SEAL OIL	DRAIN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3026	A	007	2	23	VAC MACH	C-500	V	SEAL OIL	DRAIN VALVE	SEAL OIL	SG	16.00	G	Y	M
3027	A	008	2	23	VAC MACH	C-500	SG	SEAL OIL	DRAIN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3030	A	003	2	23	VAC MACH	C-500	V	EXHAUST	SEAL GAS RECYCLE LINE DRAIN	RECYCLE	SG	16.00	G	Y	M
3031	A	004	2	23	VAC MACH	C-500	V	EXHAUST	SEAL GAS RECYCLE LINE VALVE	RECYCLE	SG	16.00	G	Y	M
3032	A	005	2	23	VAC MACH	C-500	V	EXHAUST	SEAL GAS RECYCLE LINE VALVE	RECYCLE	SG	16.00	G	Y	M
3033	A	006	2	23	VAC MACH	C-500	V	EXHAUST	SEAL GAS RECYCLE LINE VALVE	RECYCLE	SG	16.00	G	Y	M
3040	A	032	2	23	VAC MACH	C-500	V	FIRST STAGE	CLEANOUT	RECYCLE	SG	16.00	G	Y	M
3041	A	031	2	23	VAC MACH	C-500	V	FIRST STAGE	SAFETY WATER	SAFETY	SG	16.00	GV	Y	N/A
3042	A	030	2	23	VAC MACH	C-500	V	FIRST STAGE	SAFETY WATER CLEANOUT	SAFETY	SG	16.00	GV	Y	N/A
3043	A	035	2	23	VAC MACH	C-500	V	SECOND STAGE	SAFETY WATER	SAFETY	SG	16.00	GV	Y	N/A
3050	A	039	2	23	VAC MACH	C-500	G	SEAL OIL	INLET GAUGE	SEAL OIL	SG	16.00	G	Y	M
3051	A	041	2	23	VAC MACH	C-500	V	SEAL OIL	INLET	SEAL OIL	SG	16.00	G	Y	M
3052	A	040	2	23	VAC MACH	C-500	V	SEAL OIL	INLET	SEAL OIL	SG	16.00	G	Y	M
3053	A	042	2	23	VAC MACH	C-500	V	SEAL OIL	INLET	SEAL OIL	SG	16.00	G	Y	M
3054	A	043	2	23	VAC MACH	C-500	V	SEAL OIL	INLET	SEAL OIL	SG	16.00	G	Y	M
3055	A	044	2	23	VAC MACH	C-500	V	SEAL OIL	INLET	SEAL OIL	SG	16.00	G	Y	M
3056	A	045	2	23	VAC MACH	C-500	V	SEAL OIL	INLET	SEAL OIL	SG	16.00	G	Y	M
3057	A	046	2	23	VAC MACH	C-500	V	SEAL OIL	INLET	SEAL OIL	SG	16.00	G	Y	M
3058	A	047	2	23	VAC MACH	C-500	V	SEAL OIL	INLET	SEAL OIL	SG	16.00	G	Y	M
3059	A	048	2	23	VAC MACH	C-500	G	SEAL OIL	INLET GAUGE	SEAL OIL	SG	16.00	G	Y	M
3070	A	024	2	23	VAC MACH	C-500	V	INJECTION	WATER FIRST STAGE	INJECTION WAT	SG	16.00	G	Y	M
3071	A	481	2	23	VAC MACH	C-500	V	INJECTION	WATER FIRST STAGE	INJECTION WAT	SG	16.00	G	Y	M
3072	A	480	2	23	VAC MACH	C-500	V	INJECTION	WATER FIRST STAGE	INJECTION WAT	SG	16.00	G	Y	M
3073	A	025	2	23	VAC MACH	C-500	V	INJECTION	WATER SECOND STAGE	INJECTION WAT	SG	16.00	G	Y	M
3074	A	026	2	23	VAC MACH	C-500	V	INJECTION	WATER SECOND STAGE	INJECTION WAT	SG	16.00	G	Y	M
3075	A	027	2	23	VAC MACH	C-500	V	INJECTION	WATER SECOND STAGE	INJECTION WAT	SG	16.00	G	Y	M
3076	A	028	2	23	VAC MACH	C-500	V	INJECTION	WATER SECOND STAGE	INJECTION WAT	SG	16.00	G	Y	M
3080	A	034	2	23	VAC MACH	C-500	V	SUB GAS	SUCTION HEADER BLOCK	IN / OUT	SG	16.00	G	N	A
3081	A	038	2	23	VAC MACH	C-500	V	SUB GAS	RECYCLE VALVE	IN / OUT	SG	16.00	G	N	A
3082	A	484	2	23	VAC MACH	C-500	V	SUB GAS	DISCHARGE CHECK	IN / OUT	SG	16.00	G	N	A
3083	A	036	2	23	VAC MACH	C-500	V	SUB GAS	DISCHARGE HEADER BLOCK	IN / OUT	SG	16.00	G	N	A
3084	A	485	2	23	VAC MACH	C-500	V	SUB GAS	DISCHARGE CLEANOUT	IN / OUT	SG	16.00	G	N	A
3085	A	037	2	23	VAC MACH	C-500	V	SUB GAS	DISCHARGE BLOCK	IN / OUT	SG	16.00	G	N	A

3080 A 035 2 23 VAC MACH C-500 V RELIEF

IN / OUT

SG

16.00 G

N

A

TABLE 24  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
VACUUM MACHINE C-503

3100	A	346	2	24	VAC MACH	C-503	V	STEAM EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3101	A	345	2	24	VAC MACH	C-503	V	STEAM EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3102	A	344	2	24	VAC MACH	C-503	V	STEAM EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3103	C	026	2	24	VAC MACH	C-503	V	STEAM EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	N	N/A
3104	C	002	2	24	VAC MACH	C-503	V	STEAM EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3105	C	001	2	24	VAC MACH	C-503	V	STEAM EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3106	A	343	2	24	VAC MACH	C-503	G	STEAM EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3107	A	342	2	24	VAC MACH	C-503	G	STEAM EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3108	A	340	2	24	VAC MACH	C-503	V	STEAM EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3120	A	334	2	24	VAC MACH	C-503	V	SEAL OIL RETURN CLEANOUT VALVE	SEAL OIL	SG	16.00	G	Y	M
3121	A	335	2	24	VAC MACH	C-503	SG	SEAL OIL RETURN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3122	C	016	2	24	VAC MACH	C-503	V	SEAL OIL RETURN	SEAL OIL	SG	16.00	G	Y	M
3123	C	017	2	24	VAC MACH	C-503	SG	SEAL OIL RETURN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3124	C	013	2	24	VAC MACH	C-503	V	AXI DRAIN	SEAL OIL	SG	16.00	G	Y	M
3125	C	014	2	24	VAC MACH	C-503	V	SEAL OIL RETURN	SEAL OIL	SG	16.00	G	Y	M
3126	C	015	2	24	VAC MACH	C-503	SG	SEAL OIL RETURN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3127	C	011	2	24	VAC MACH	C-503	V	SEAL OIL RETURN LINE	SEAL OIL	SG	16.00	G	Y	M
3128	C	012	2	24	VAC MACH	C-503	SG	SEAL OIL RETURN LINE SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3130	C	007	2	24	VAC MACH	C-503	V	SEAL GAS RECYCLE LINE DRAIN VALVE	RECYCLE	SG	16.00	G	Y	M
3131	C	006	2	24	VAC MACH	C-503	V	SEAL GAS RECYCLE LINE	RECYCLE	SG	16.00	G	Y	M
3132	C	005	2	24	VAC MACH	C-503	V	SEAL GAS RECYCLE LINE	RECYCLE	SG	16.00	G	Y	M
3133	C	004	2	24	VAC MACH	C-503	V	SEAL GAS RECYCLE LINE	RECYCLE	SG	16.00	G	Y	M
3140	C	022	2	24	VAC MACH	C-503	V	FIRST STAGE INLET CLEANOUT	SAFETY	SG	16.00	GV	Y	N/A
3141	C	023	2	24	VAC MACH	C-503	V	FIRST STAGE INLET CLEANOUT	SAFETY	SG	16.00	GV	Y	N/A
3142	C	025	2	24	VAC MACH	C-503	V	SAFETY WATER CLEANOUT	SAFETY	SG	16.00	GV	Y	N/A
3143	C	025	2	24	VAC MACH	C-503	V	FIRST/SECOND STAGE CROSSOVER CLEANOUT	SAFETY	SG	16.00	G	Y	M
3150	C	010	2	24	VAC MACH	C-503	G	SEAL OIL INLET GAUGE	SEAL OIL	SG	16.00	G	Y	M
3151	C	008	2	24	VAC MACH	C-503	V	SEAL OIL INLET VALVE	SEAL OIL	SG	16.00	G	Y	M
3152	C	030	2	24	VAC MACH	C-503	V	SEAL OIL INLET VALVE GREASE FITTING	SEAL OIL	SG	16.00	G	Y	M
3153	C	009	2	24	VAC MACH	C-503	V	SEAL OIL INLET VALVE	SEAL OIL	SG	16.00	G	Y	M
3154	A	336	2	24	VAC MACH	C-503	V	SEAL OIL INLET VALVE	SEAL OIL	SG	16.00	G	Y	M
3155	C	031	2	24	VAC MACH	C-503	V	SEAL OIL INLET VALVE GREASE FITTING	SEAL OIL	SG	16.00	G	Y	M
3156	A	337	2	24	VAC MACH	C-503	V	SEAL OIL INLET VALVE	SEAL OIL	SG	16.00	G	Y	M
3157	A	338	2	24	VAC MACH	C-503	G	SEAL OIL INLET GAUGE	SEAL OIL	SG	16.00	G	Y	M
3170	C	021	2	24	VAC MACH	C-503	V	INJECTION WATER	INJECTION WAT	SG	16.00	G	Y	M
3171	C	021	2	24	VAC MACH	C-503	V	INJECTION WATER	INJECTION WAT	SG	16.00	G	Y	M
3172	C	019	2	24	VAC MACH	C-503	V	INJECTION WATER	INJECTION WAT	SG	16.00	G	Y	M
3173	C	018	2	24	VAC MACH	C-503	V	INJECTION WATER	INJECTION WAT	SG	16.00	G	Y	M
3174	C	020	2	24	VAC MACH	C-503	V	INJECTION WATER	INJECTION WAT	SG	16.00	G	Y	M
3175	C	003	2	24	VAC MACH	C-503	V	INJECTION WATER	INJECTION WAT	SG	16.00	G	Y	M
3176	C	027	2	24	VAC MACH	C-503	V	INJECTION WATER	INJECTION WAT	SG	16.00	G	Y	M
3177	A	339	2	24	VAC MACH	C-503	V	INJECTION WATER SYSTEM VALVE	INJECTION WAT	SG	16.00	G	Y	M
3180	C	032	2	24	VAC MACH	C-503	V	SUB GAS INLET HEADER BLOCKING VALVE	IN / OUT	SG	16.00	GV	N	N/A
3181	C	030	2	24	VAC MACH	C-503	V	SUB GAS BYPASS VALVE	IN / OUT	SG	16.00	G	N	A
3182	A	360	2	24	VAC MACH	C-503	V	SUB GAS DISCHARGE CHECK VALVE	IN / OUT	SG	16.00	G	N	A
3183	C	028	2	24	VAC MACH	C-503	V	SUB GAS DISCHARGE BLOCKING VALVE	IN / OUT	SG	16.00	G	N	A
3184	A	391	2	24	VAC MACH	C-503	V	SUB GAS DISCHARGE CLEAN OUT	IN / OUT	SG	16.00	G	N	A
3185	C	029	2	24	VAC MACH	C-503	VV	SUB GAS DISCHARGE HEADER BLOCKING VALVE	IN / OUT	SG	16.00	G	N	A
3186	C	018	2	24	VAC MACH	C-503	V	FIRST/SECOND STAGE CROSSOVER CLEANOUT	IN / OUT	SG	16.00	G	N	A
3187	C	024	2	24	VAC MACH	C-503	V	FIRST/SECOND STAGE CROSSOVER CLEANOUT	IN / OUT	SG	16.00	G	N	A
3189	C	031	2	24	VAC MACH	C-503	V	RELIEF VALVE	IN / OUT	SG	16.00	G	N	A

TABLE 25  
REGISTRATION OF COMPONENTS IN BENZENE SERVICE  
VACUUM MACHINE C-506

3201	C	038	2	25	VAC MACH	C-506	V	STEAM	EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3202	C	037	2	25	VAC MACH	C-506	V	STEAM	EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3203	C	039	2	25	VAC MACH	C-506	V	STEAM	EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3204	C	038	2	25	VAC MACH	C-506	V	STEAM	EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3205								STEAM	EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	N/A
3206	A	052	2	25	VAC MACH	C-506	G	STEAM	EDUCTOR LINE VALVE	STEAM	SG	16.00	GV	Y	ADDED 12-85
3206	C	048	2	25	VAC MACH	C-506	V	SEAL OIL	INLET VALVE	SEAL OIL	SG	16.00	GV	Y	N/A
3207	A	053	2	25	VAC MACH	C-506	V	SEAL OIL	EDUCTOR LINE VALVE	SEAL OIL	SG	16.00	G	Y	M
3208	A	050	2	25	VAC MACH	C-506	V	SEAL OIL	EDUCTOR LINE VALVE	SEAL OIL	SG	16.00	GV	Y	N/A
3209	A	051	2	25	VAC MACH	C-506	G	SEAL OIL	EDUCTOR LINE VALVE	SEAL OIL	SG	16.00	GV	Y	N/A
3220	C	047	2	25	VAC MACH	C-506	V	SEAL OIL	RETURN	SEAL OIL	SG	16.00	GV	Y	N/A
3221	C	046	2	25	VAC MACH	C-506	SG	SEAL OIL	RETURN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3222	C	045	2	25	VAC MACH	C-506	V	SEAL OIL	RETURN	SEAL OIL	SG	16.00	G	Y	M
3223	C	044	2	25	VAC MACH	C-506	SG	SEAL OIL	RETURN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3224	C	043	2	25	VAC MACH	C-506	V	SEAL OIL	RETURN	SEAL OIL	SG	16.00	G	Y	M
3225	C	042	2	25	VAC MACH	C-506	SG	SEAL OIL	RETURN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3226	C	040	2	25	VAC MACH	C-506	V	SEAL OIL	RETURN	SEAL OIL	SG	16.00	G	Y	M
3227	C	041	2	25	VAC MACH	C-506	SG	SEAL OIL	RETURN SIGHT GLASS	SEAL OIL	SG	16.00	G	Y	M
3230	C	055	2	25	VAC MACH	C-506	V	SEAL GAS	RECYCLE LINE DRAIN	SEAL GAS	SG	16.00	G	Y	M
3231	C	056	2	25	VAC MACH	C-506	V	SEAL GAS	RECYCLE LINE	SEAL GAS	SG	16.00	G	Y	M
3232	C	057	2	25	VAC MACH	C-506	V	SEAL GAS	RECYCLE LINE	SEAL GAS	SG	16.00	G	Y	M
3240	C	033	2	25	VAC MACH	C-506	V	SEAL GAS	RECYCLE LINE	SEAL GAS	SG	16.00	G	Y	M
3241	C	034	2	25	VAC MACH	C-506	V	FIRST STAGE	INLET CLEANOUT	FIRST STAGE	SG	16.00	GV	Y	N/A
3242	C	035	2	25	VAC MACH	C-506	V	FIRST STAGE	INLET CLEANOUT	FIRST STAGE	SG	16.00	GV	Y	N/A
3244	A	057	2	25	VAC MACH	C-506	V	FIRST STAGE	SAFETY WATER	FIRST STAGE	SG	16.00	GV	Y	N/A
3250	C	049	2	25	VAC MACH	C-506	V	SECOND STAGE	SAFETY WATER CLEANOUT	SECOND STAGE	SG	16.00	GV	Y	N/A
3251	A	049	2	25	VAC MACH	C-506	V	SEAL OIL	INLET VALVE	SEAL OIL	SG	16.00	GV	Y	M
3253	C	053	2	25	VAC MACH	C-506	V	STEAM	EDUCTOR LINE VALVE	STEAM	SG	16.00	G	Y	M
3254	C	054	2	25	VAC MACH	C-506	V	SEAL OIL	INLET LINE VALVE	SEAL OIL	SG	16.00	GV	Y	N/A
3255	A	054	2	25	VAC MACH	C-506	V	SECOND STAGE	SAFETY WATER	SECOND STAGE	SG	16.00	GV	Y	N/A
3270	C	051	2	25	VAC MACH	C-506	V	SEAL OIL	INLET GAUGE	SEAL OIL	SG	16.00	G	Y	M
3271	A	055	2	25	VAC MACH	C-506	V	INJECTION	WATER VALVE	INJECTION	SG	16.00	G	Y	M
3272	C	052	2	25	VAC MACH	C-506	V	INJECTION	WATER VALVE	INJECTION	SG	16.00	G	Y	M
3273								INJECTION	WATER VALVE	INJECTION	SG	16.00	G	Y	M
3274								INJECTION	WATER VALVE	INJECTION	SG	16.00	G	Y	M
3275	C	059	2	25	VAC MACH	C-506	V	INJECTION	WATER VALVE	INJECTION	SG	16.00	G	Y	M
3276	C	058	2	25	VAC MACH	C-506	V	INJECTION	WATER VALVE	INJECTION	SG	16.00	G	Y	M
3277	A	056	2	25	VAC MACH	C-506	V	INJECTION	WATER VALVE	INJECTION	SG	16.00	G	Y	M
3280	C	061	2	25	VAC MACH	C-506	V	INJECTION	WATER VALVE	INJECTION	SG	16.00	G	N	A
3281	C	060	2	25	VAC MACH	C-506	V	SUB GAS	SUCTION HEADER BLOCKING VALVE	IN/OUT	SG	16.00	GV	Y	M
3282	A	058	2	25	VAC MACH	C-506	V	SUB GAS	RECYCLE VALVE	RECYCLE	SG	16.00	G	N	A
3283								SUB GAS	DISCHARGE CHECK VALVE	IN/OUT	SG	16.00	G	N	A
3284	A	059	2	25	VAC MACH	C-506	V	SUB GAS	DISCHARGE BLOCKING VALVE	IN/OUT	SG	16.00	G	N	A
3285	C	063	2	25	VAC MACH	C-506	V	SUB GAS	DISCHARGE CLEANOUT VALVE	IN/OUT	SG	16.00	G	N	A
3290	C	062	2	25	VAC MACH	C-506	VT	SUB GAS	DISCHARGE BLOCKING VALVE	RELIEF VALVE	SG	16.00	G	N	A